

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the above-identified application.

Listing of Claims

1. (Original) A method comprising:
receiving a first read request from a computer system;
reading data from a first mirror of a data volume in response to receiving the first read request;
reading data from a second mirror of the data volume in response to receiving the first read request;
returning the data read from the first mirror to the computer system;
storing the data read from the second mirror into a cache memory;
receiving a second read request from the computer system, wherein the second read request is received subsequent to the first read request, and wherein the first and second read requests seek the same data;
returning data stored in the cache memory in response to receiving the second read request.
2. (Original) The method of claim 1 further comprising:
comparing an identification of data sought by the first read request with data identifications stored in a history of read requests in memory;
wherein data is read from the data volume in response to determining that the identification of data sought by the first read request does not compare equally with at least one data identification stored in the history of read requests.
3. (Original) The method of claim 2 further comprising creating a new entry in the history of read requests, wherein the entry comprises the identification of data sought by the first read request and the time the first request was received.

4. (Original) The method of claim 3 further comprising:
comparing the identification of data sought by the second read request with data
identifications stored in the history of read requests;
wherein data is returned from the cache memory in response to determining that the
identification of data sought by the second read request compares equally with the
data identification of the new entry.
5. (Original) The method of claim 1 further comprising comparing time T1 with time T2,
wherein time T1 is the time when the first read request was received, and wherein time T2 is the
time when the second read request was received.
6. (Original) The method of claim 5 further comprising returning the data stored in the
cache memory in response to receiving the second request only if time T2 occurs within a
predetermined amount of time after T1.
7. (Original) The method of claim 5 further comprising:
the computer system processing the data read from the first mirror;
the computer system generating the second read request in response to determining that
the data read from the first mirror is corrupted.
8. (Original) The method of claim 1 further comprising comparing the data read from the
first and second mirrors wherein the data read from second mirror is stored into the cache
memory if the data read from the first and second mirrors do not compare equally.

9. (Original) A computer readable medium comprising instructions executable by a first computer system, wherein the first computer system performs a method in response to executing the instructions, the method comprising:

- receiving a first read request from a computer system;
- reading data from a first mirror of a data volume in response to receiving the first read request;
- reading data from a second mirror of the data volume in response to receiving the first read request;
- returning the data read from the first mirror to the computer system;
- storing the data read from the second mirror into a cache memory;
- receiving a second read request from the computer system, wherein the second read request is received subsequent to the first read request, and wherein the first and second read requests seek the same data;
- returning data stored in the cache memory in response to receiving the second read request.

10. (Original) The computer readable medium of claim 9 wherein the method further comprises:

- comparing an identification of data sought by the first read request with data identifications stored in a history of read requests in memory;
- wherein data is read from the data volume in response to determining that the identification of data sought by the first read request does not compare equally with at least one data identification stored in the history of read requests.

11. (Original) The computer readable medium of claim 10 further comprising creating a new entry in the history of read requests, wherein the entry comprises the identification of data sought by the first read request.

12. (Original) The computer readable medium of claim 11 further comprising:
comparing the identification of data sought by the second read request with data
identifications stored in the history of read requests;
wherein data is read from the cache memory in response to determining that the
identification of data sought by the second read request compares equally with the
data identification of the new entry.
13. (Original) The computer readable medium of claim 9 further comprising comparing time
T1 with time T2, wherein time T1 is the time when the first read request was received, and
wherein time T2 is the time when the second read request was received.
14. (Original) The computer readable medium of claim 13 further comprising reading the
data stored in the cache memory in response to receiving the second request only if time T2
occurs within a predetermined amount of time after T1.
15. (Original) The computer readable medium of claim 13 further comprising:
the computer system processing the data read from the first mirror;
the compute system generating the second read request in response to determining that
the data read from the first mirror is corrupted.
16. (Original) The computer readable medium of claim 9 further comprising:
comparing the data read from the first and second mirrors wherein the data read from
second mirror is stored into the cache memory if the data read from the first and
second mirrors do not compare equally
17. (Cancelled)

18. (Original) A data processing system comprising;
- a first computer system coupled to a memory system, wherein the memory system stores a data volume comprising a first mirror and a second mirror, wherein the first computer system comprises a memory for storing instructions executable by the first computer system, wherein the first computer system implements a method in response to executing the instructions, the method comprising:
- receiving a first read request from a computer system;
- reading data from the first mirror in response to receiving the first read request;
- reading data from the second mirror of the data volume in response to receiving the first read request;
- returning the data read from the first mirror to the computer system;
- storing the data read from the second mirror into a cache memory;
- receiving a second read request from the computer system, wherein the second read request is received subsequent to the first read request, and wherein the first and second read requests are for the same data;
- returning data stored in the cache memory in response to receiving the second read request.